

Application No. 10/532,454

20. (Currently Amended) An optical system for transforming the angle of an incident light bundle, said system comprising:

two-stage transformation optics, comprising two partial systems having positive refractive power, arranged following each other, as seen in the direction of light propagation;

wherein the ratio of the refractive powers of the partial systems determines the angular magnification of a deflected said incident light bundle; and

arrangement of lenses in the second partial system is selected such that, as seen in the direction of light propagation, an exit pupil of the transformation optics is located between a lens vertex of a last lens of the second partial system and the projection surface, and wherein ^a the stop is arranged at the exit pupil.

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21. (Previously Presented) The arrangement as claimed in claim 20, wherein the transformation optics are corrected for imaging substantially free from distortion.

22. (Currently Amended) An optical system for transforming the angle of an incident light bundle, said system comprising:

two-stage angle transformation optics, having a first exit pupil located within said transformation optics lenses of the optical system;

relay optics, comprising a first and a second partial system each having positive refractive power, arranged posterior to the angle transformation optics, as seen in the direction of light propagation;